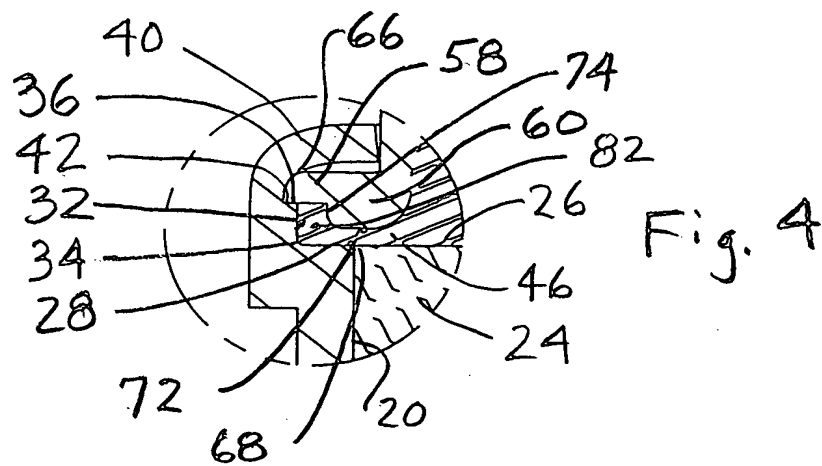
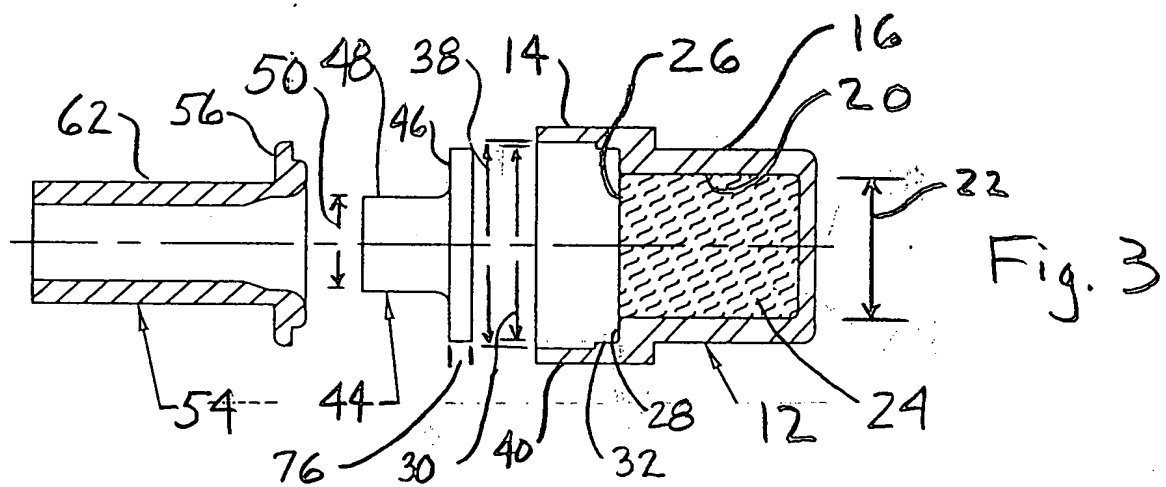


Fig. 1

Fig. 2



		TEST 1									
LOAD	MOTION @ 180F	MOTION @ 200F	PISTON LENGTH	WAX WEIGHT	OVER ALL PART WEIGHT	PRE-TEST LENGTH	POST TEST LENGTH				
20 lbs	0:22.5	0:19.5	0:500	0:159	5274	0:774	0:774				
30 lbs	0:21.7	0:268	0:500	0:159	5274	0:774	0:774				
40 lbs	0:21.2	0:241	0:500	0:159	5274	0:774	0:774				
50 lbs	0:20.5	0:223	0:500	0:159	5274	0:774	0:774				
60 lbs	0:20.1	0:215	0:500	0:159	5274	0:774	0:774				
70 lbs	0:18.7	0:196	0:500	0:159	5274	0:774	0:774				
80 lbs	0:18.3	0:191	0:500	0:159	5274	0:774	0:774				
90 lbs			0:500	0:159	5274	0:774	0:774				
100 lbs			0:500	0:159							

LOAD	# of Times
20 lbs	1721.07
30 lbs	2581.6
40 lbs	3442.15
50 lbs	4302.69
60 lbs	5163.23
70 lbs	6023.77
80 lbs	6888.31
90 lbs	0
100 lbs	0

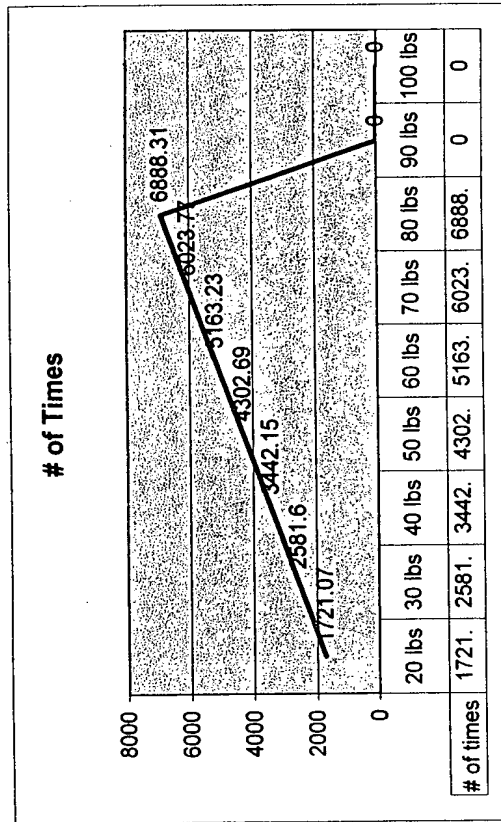


Table 1

TEST 2		PISTON LENGTH		WAX WEIGHT		OVER ALL PART WEIGHT		PRE-TEST LENGTH		POST TEST LENGTH	
LOAD	MOTION @ 145F	MOTION @ 160F									
20 lbs	0.153	0.201	0.500	0.144	5.281	0.774	0.774	0.774	0.774	0.774	0.774
30 lbs	0.144	0.205	0.500	0.144	5.281	0.774	0.774	0.774	0.774	0.774	0.774
40 lbs	0.142	0.195	0.500	0.144	5.281	0.774	0.774	0.774	0.774	0.774	0.774
50 lbs	0.136	0.141	0.500	0.144	5.281	0.774	0.774	0.774	0.774	0.774	0.774
60 lbs	0.134	0.138	0.500	0.144	5.281	0.774	0.774	0.774	0.774	0.774	0.774
70 lbs	0.127	0.131	0.500	0.144	5.281	0.774	0.774	0.774	0.774	0.774	0.774
80 lbs	0.122	0.125	0.500	0.144	5.281	0.774	0.774	0.774	0.774	0.774	0.774
90 lbs	0.117	0.119	0.500	0.144	5.281	0.774	0.774	0.774	0.774	0.774	0.774
100 lbs	0.112	0.113	0.500	0.144	5.281	0.774	0.774	0.774	0.774	0.774	0.774

LOAD	# of Times
20 lbs	1725
30 lbs	2587.5
40 lbs	3450
50 lbs	4312.5
60 lbs	5175
70 lbs	6037.5
80 lbs	6900
90 lbs	7762.5
100 lbs	8625

Times Lifted of Actuator's Weight

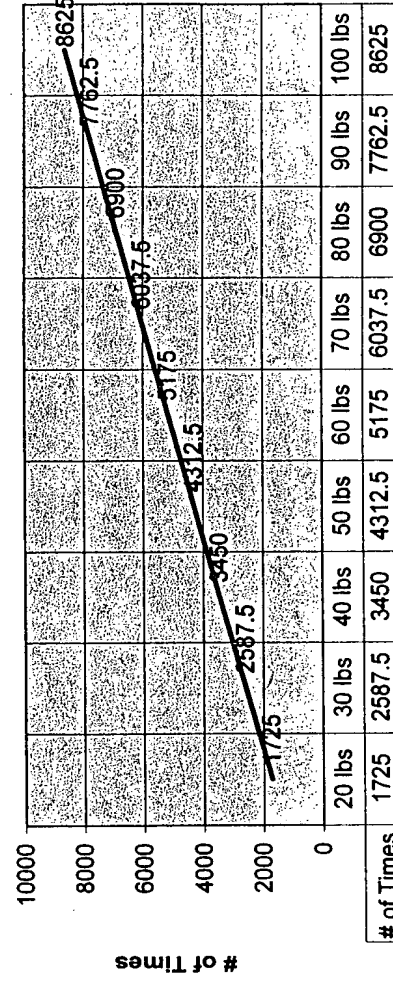


Table 2

TEST 3			BATCH 58640				
LOAD	MOTION @ 150F	MOTION @ 250F	PISTON LENGTH	WAX WEIGHT	OVER ALL PART WEIGHT	PRE-TEST LENGTH	POST-TEST LENGTH
20 lbs	0:248	0:362	0.610	0.141	5.270	0.770	0.770
30 lbs	0:234	0:346	0.610	0.141	5.270	0.770	0.770
40 lbs	0:226	0:337	0.610	0.141	5.270	0.770	0.770
50 lbs	0:223	0:326	0.610	0.141	5.270	0.770	0.770
60 lbs	0:218	0:308	0.610	0.141	5.270	0.770	0.770
70 lbs	0:210	0:299	0.610	0.141	5.270	0.770	0.770
80 lbs	0:201	0:000	0.610	0.141	5.270	0.770	0.770
90 lbs	0:000	0:000	0.610	0.141	5.270	0.770	0.770
100 lbs	0:000	0:000	0.610	0.141	5.270	0.770	0.770

LOAD	# of Times
20 lbs	1721.4
30 lbs	2588.1
40 lbs	3442.8
50 lbs	4303.51
60 lbs	5164.21
70 lbs	6024.91
80 lbs	6885.61
90 lbs	0
100 lbs	0

Times Lifted of Actuator's Weight

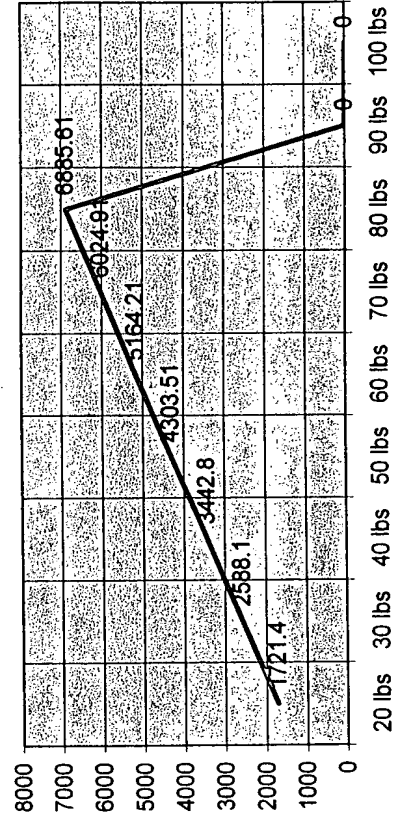


Table 3